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gattttttcc cgtcttaatc cgcctgcccc ggttcccccc ccgcctcgtc tcgttaatgg   240

ggaaccgact tattcggtta atcgtattct ggactccaga cggaggggac gcggatttca   300

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catactggat caccgcctta tcgatgttta caatcaacag gtaaagcagg ctgggaacgt   420

caaggggcgt tcctagggga gggggtactg tcacggtagg aaatcctctg tttcctccgt   480

gtcatgtttg tgtgtgtgtg tgtttgttac tctctgctct gccatgtgct cgttaggctg   540

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aaacatttct ttaccgttta tatcaagcag actgcaataa aactcttaca aaaatgcttc        1860

tttgcatgat cacacacatt aaagaaacac actaaaaata caaaaataaa caaatctata        1920

tatgcaatat atttatataa aatacttgca ataaacagta aaataacaaa atctaatgta        1980

aagacatgag tcaataaaaa tatgtaaaac atccataaat gtaaaatata ctgaaagaaa        2040

tgtgaacaca gaaaagtgtt catgtgtcag atcaggatgt ttattttgat aaccatcaca        2100

tttcatcata tattgtatac atatatacaa gttcatgata tccagattta cttttcttgt        2160

ttatgttatg gagtccctcc cactgaacaa aagtataaaa gataggactc ctcattgacc        2220

atcacacaat ctacactgaa gttctgaaag tgaagatttg acaaaaaggt gagtttttat        2280

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gctgggaacg tcaagggcg ttcctagggg aggggtact gtcacggtag gaaatcctct   540

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4

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tcaccactcc accaacgccg cactcaataa ccacctacca ccgtagtcct cgtcaccatt        900

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5

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gtttctcgtt ttgagtcaac taatattttt aagttgaatg aactcaaaat tttaagtcgc      1860

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aaaaatgctt ctttgcatga tcacacacat taaagaaaca cactaaaaat acaaaaataa      1980

acaaatctat atatgcaata tatttatata aaatacttgc aataaacagt aaaataacaa      2040

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Leu Leu Phe Leu Val Phe Ser Val Glu Ser Ala Pro Gly
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aattgtgttt tccataaaac ttgttaaaca ttataaacat catgaaagga tgtcaacaga      2610
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6

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ccc ttt ggt gtg caa tgc tac aaa ttc ttc tct cag tca gtt gac tgg   2766
Pro Phe Gly Val Gln Cys Tyr Lys Phe Phe Ser Gln Ser Val Asp Trp
    10   15   20

atc aca gct gag   gt actgttattc agttattcaa attgttgaat aagaatactc   2820
Ile Thr Ala Glu
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aatgtcatga tccaagctga aacagattag attttatatt tgcaataaaa taatctctct   2880

ctctttag   aaa aac tgt caa tct att gat gct aat ctt gca tct gtg cgc   2930
          Lys Asn Cys Gln Ser Ile Asp Ala Asn Leu Ala Ser Val Arg
          1   5   10

agt aca atg gaa cac aac ttt ctc ctg agt ctg att gtg tct gct aac   2978
Ser Thr Met Glu His Asn Phe Leu Leu Ser Leu Ile Val Ser Ala Asn
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aca cgt gtt tgg att ggt ggc cat gat ggt gaa act gtaagt cattttgctc   3030
Thr Arg Val Trp Ile Gly Gly His Asp Gly Glu Thr
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                                            Glu Gly Gln
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tgg ctg tgg tct gat gga tct caa ttt cac ttt acc aac tgg tgc cct         3254
Trp Leu Trp Ser Asp Gly Ser Gln Phe His Phe Thr Asn Trp Cys Pro
      5               10              15


gga gaa cct agc aat aat ttt ggt aaa gag aac tgc ctg gag ata aac         3302
Gly Glu Pro Ser Asn Asn Phe Gly Lys Glu Asn Cys Leu Glu Ile Asn
 20              25              30              35


ttt aca cgt aagaaagtc tcatatcatt attgtttta tttacaatct taaaattcta       3360
Phe Thr Arg


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aca atc agc tac att tgt gcc caa cct att aga tca    tgaa aaatcaatct      4000
Thr Ile Ser Tyr Ile Cys Ala Gln Pro Ile Arg Ser
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Val Trp Ile Gly Gly His Asp Gly Glu Thr
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Glu Ile Asn Phe Thr Arg
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Cys Ala Gln Pro Ile Arg Ser
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<223> primer for amplifying a lectin gene regulation site of a mud
loach

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loach

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<220>
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14

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<220>

<223>   primer for detecting a CAT gene

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<220>

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<210>   16

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<220>
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<220>
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<220>
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